

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000173

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G11B7/135, G02B5/32, G11B7/09, 7/13

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G11B7/09-7/135 G02B5/30-5/32

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 2001-202647 A (Matsushita Electric Industrial Co., Ltd.), 27 July, 2001 (27.07.01), Par. Nos. [0033] to [0063]; Figs. 3 to 8 & US 6597642 B1 & CN 1304133 A	1, 2, 8-10 3-7
Y	JP 2002-92902 A (Ricoh Co., Ltd.), 29 March, 2002 (29.03.02), Par. Nos. [0027] to [0110]; Figs. 4 to 10 (Family: none)	1, 2, 8-10
Y	JP 2003-151169 A (Sony Corp.), 23 May, 2003 (23.05.03), Par. Nos. [0017] to [0022], [0079]; Figs. 1, 19 (Family: none)	9, 10



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:
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 "E" earlier application or patent but published on or after the international filing date
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 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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Date of the actual completion of the international search
12 April, 2005 (12.04.05)

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Name and mailing address of the ISA/
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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 2002-123967 A (Victor Company Of Japan, Ltd.), 26 April, 2002 (26.04.02), Par. Nos. [0010] to [0066]; Figs. 1 to 9 & US 2002/8888 A1 & EP 1109163 A2	1-10
A	JP 2002-109759 A (Matsushita Electric Industrial Co., Ltd.), 12 April, 2002 (12.04.02), Par. Nos. [0090] to [0117]; Figs. 7 to 10 & US 2003/7436 A1 & CN 1343976 A	1-10
A	JP 8-17069 A (Olympus Optical Co., Ltd.), 19 January, 1996 (19.01.96), Par. Nos. [0048] to [0054]; Figs. 11 to 12 (Family: none)	1-10
A	JP 9-274730 A (NEC Corp.), 21 October, 1997 (21.10.97), Figs. 26, 30 & US 5875167 A & EP 791918 A1	9,10